	Application No.	Applicant(s)
Notice of Allowability	10/602,037	SENGODAN, KATHIRAVAN
	Examiner	Art Unit	
	MARY STEELMAN	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to _04/09/2007_.

2. ☒ The allowed claim(s) is/are _1,4,5,6,9,10,14,18,19,23 (to be renumbered in order)_.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

    Paper No./Mail Date _____ .

  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _02/05/2007_

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _6-8-07_

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   This Office Action is in response to Remarks and Amendments received 04/09/2007. Per

Applicant's request, the Specification has been amended. A Terminal Disclaimer has been

processed and entered, as related to copending applications 10/601898, 10/602038, and

10/601929. In view of the amendments, the prior 35 USC 101 rejections and 35 USC 112

second paragraph rejections are hereby withdrawn. IDS received 02/05/2007 has been

considered.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Karl Kenna, Reg. No. 45,445 on 06/07/2007.

3.   Claims 1, 4, 5, 6, 9, 10, 14, 18, 19, and 23 (to be renumbered in order), as presented

below, are allowed.

4.   Claims 2, 3, 7, 8, 11-13, 15-17, 20-22 are cancelled.

5.   The application has been amended as follows:

IN THE CLAIMS

1. (Currently Amended) A system for accessing an application program interface (API) using a

mark-up language, to abstract complexity of enterprise service API programming, comprising:

   a server computer including a ~~processing device operating thereon~~ server processor and

a plurality of enterprise service API for one of messaging, operation, administration,

and management monitoring;

   a source file stored on a computer readable medium at a client computer,

wherein the source file contains a plurality of user input markup language commands

including the name of at least one enterprise service API at the server computer, and

operations to be performed therewith;

   a parser that executes on the client computer and parses the source file to

extract the user input markup language commands, and communicate the user input

markup language commands to a command processor,

   a command processor that executes on the client computer and validates the

markup language commands, and, for each markup language command converts the

markup language command into a command object for communication to a command

dispatcher;

   a command dispatcher that executes on the client computer and receives

command objects from the command processor and, for each command object, assigns

the command object to one of a plurality of categories corresponding to [[a]] the

~~plurality of application program interfaces~~ enterprise service API specified in the user

input markup language commands; and

a plurality of processor modules, including a processor module ~~for~~ specific to

each category of ~~application program interface~~ enterprise service API, wherein each

processor module ~~executes on the computer~~ receives the command objects assigned to

its category, and ~~performs appropriate operations against the corresponding application~~

~~program interface~~ uses the command object to perform operations at the corresponding

enterprise service API located on the server computer.

4. (Original)   The system of claim 1 wherein the source file is an XML file.

5. (Currently Amended) The system of claim 4 wherein the markup language is ~~JMS markup~~

~~language~~ JMSML, and wherein the XML file includes JMSML commands delimited within the

XML file by beginning and ending JMSML tags.

6. (Currently Amended) A method for accessing an application program interface (API) using a

mark-up language to abstract complexity of enterprise service API programming, comprising the

steps of:

    [retrieving a source file stored on a computer readable medium, wherein the

source file contains a plurality of markup language commands;

    parsing the source file to extract the markup language commands;

    validating the markup language commands, and, for each markup language

command converts the markup language command into a command object;

assigning each command object to one of a plurality of categories corresponding

to a plurality of application program interfaces; and

processing the command objects using a plurality of processor modules, including

a processor module for each category of application program interface, wherein each

processor module receives the command objects assigned to its category, and performs

appropriate operations against the corresponding application program interface;]

providing a server computer including a server processor and a plurality of enterprise

service API for one of messaging, operation, administration, and management

monitoring:

retrieving a source file stored on a computer readable medium wherein the source

file contains a plurality of user input markup language commands including the name

of at least one enterprise service API at the server computer, and operations to be

performed therewith;

parsing the source file to extract the user input markup language commands;

validating the markup language commands, and, for each markup language

command converting the markup language command into a command object;

for each command object, assigning the command object to one of a plurality of

categories corresponding to the enterprise service API specified in the user input

markup language commands; and

communicating the command objects to a plurality of processor modules,

including a processor module specific to each category of enterprise service API,

wherein each processor module receives the command objects assigned to its category,

and uses the command object to perform operations at the corresponding enterprise

service API located on the server computer.

9. (Original)   The method of claim 6 wherein the source file is an XML file,

10. (Currently Amended) The method of claim 9 wherein the markup language is ~~JMS markup~~

~~language~~ JMSML, and wherein the XML file includes JMSML commands delimited within the

XML file by beginning and ending JMSML tags.

14. (Previously Presented) The system of claim 1 wherein the source file further defines

scenarios, and wherein each scenario specifies a group of multiple operations to be performed by

the system over the plurality of application program interfaces, for a particular scenario.

18. (Currently Amended) The method of claim 6 wherein the source file further defines

scenarios, and wherein each scenario specifies a group of multiple operations to be performed ~~by~~

~~the system~~ over the plurality of application program interfaces, for a particular scenario.

19. (Currently Amended) A computer ~~readable medium~~ program product including a storage

medium having instructions stored thereon, which when executed cause the computer to perform

the steps of:

[retrieving a source file stored on a computer readable medium, wherein the source file contains a plurality of markup language commands;

parsing the source file to extract the markup language commands;

validating the markup language commands, and for each markup language command converts the markup language command into a command object;

assigning each command object to one of a plurality of categories corresponding to a plurality of application program interfaces; and

processing the command objects using a plurality of processor modules, including a processor module for each category of application program interface, wherein each processor module receives the command objects assigned to its category, and performs appropriate operations against the corresponding application program interface;]

_____ providing a server computer including a server processor and a plurality of enterprise service application program interface (API) for one of messaging, operation, administration, and management monitoring;

_____ retrieving a source file stored on a computer readable medium, wherein the source file contains a plurality of user input markup language commands including the name of at least one enterprise service API at the server computer, and operations to be performed therewith;

parsing the source file to extract the user input markup language commands:

validating the markup language commands, and, for each markup language command converting the markup language command into a command object;

for each command object, assigning the command object to one of a plurality of

categories corresponding to the enterprise service API specified in the user input markup

language commands; and

communicating the command objects to a plurality of processor modules, including a

processor module specific to each category of enterprise service API, wherein each processor

module receives the command objects assigned to its category and uses the command object to

perform operations at the corresponding enterprise service API located on the server computer.

23. (Currently Amended) The computer readable medium of claim 19 wherein the source file

further defines scenarios, and wherein each scenario specifies a group of multiple operations to

be performed ~~by the system~~ over the plurality of application program interfaces, for a particular

scenario.

THE END

6.   The following is an examiner's statement of reasons for allowance:

As noted by Applicant in Remarks (04/09/2007), page 15, last paragraph, Fuchs (US

Patent Publication 2003/0177477), Najmi (USPN 6,753,889), and other cited prior arts, taken

alone or in combination, fail to teach or suggest all limitations of independent claims 1, 6, and

19, including:

" a command processor that executes on the client computer and validates the

markup language commands, and, for each markup language command converts the

markup language command into a command object for communication to a command

dispatcher;

a command dispatcher that executes on the client computer and receives

command objects from the command processor and, for each command object, assigns

the command object to one of a plurality of categories corresponding to the enterprise

service API specified in the user input markup language commands; and

a plurality of processor modules, including a processor module specific to each

category of enterprise service API, wherein each processor module receives the

command objects assigned to its category, and uses the command object to perform

operations at the corresponding enterprise service API located on the server

computer."

Moreover, evidence for modifying the prior art teachings, by one of ordinary skill level in the art, was not uncovered so as to result in the invention. Thus, remaining dependent claims, claims 4, 5, 9, 10, 14, 18, and 23, are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary Steelman, whose telephone number is (571) 272-3704. The examiner can normally be reached Monday through Thursday, from 7:00 AM to 5:30 PM If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached at (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned: 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mary Steelman

06/08/2007

MARY STEELMAN
PRIMARY EXAMINER